

ENGINE ELECTRICAL SYSTEM

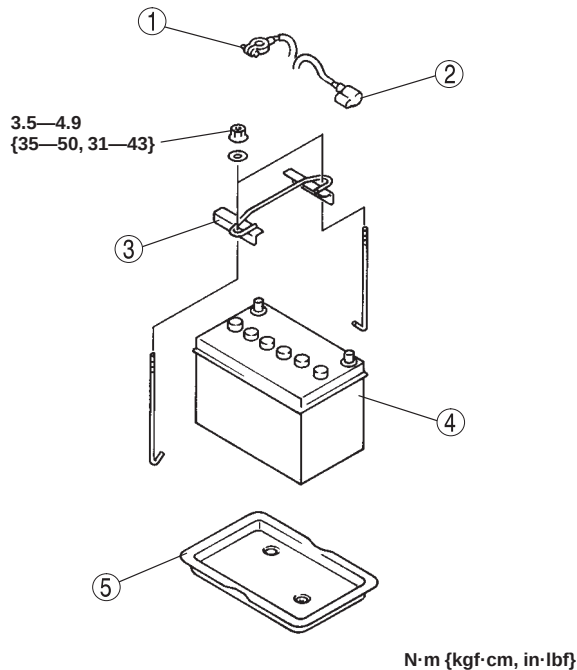
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CHARGING SYSTEM

BATTERY REMOVAL/INSTALLATION

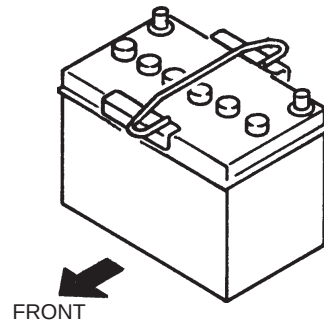
1. Remove in the order indicated in the table.
2. Install in the reverse order of removal.



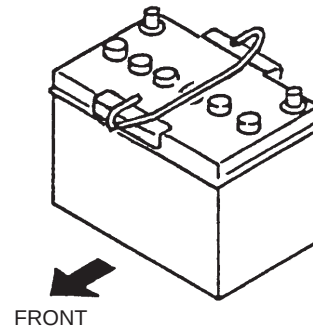
1	Negative battery cable
2	Positive battery cable
3	Battery clamp + Installation Note (RH)
4	Battery
5	Battery tray

Battery Clamp Installation Note (RH)

- Install the battery clamp as shown.



75D26R



BATTERY INSPECTION

Battery

- Inspect the battery in the following procedure.

Step	Inspection	Action
1	Measure open circuit voltage of battery.	Above 12.4 V Go to Step 3.
		Below 12.4 V Go to next step.
2	Quick charge for 30 minutes and recheck voltage.	Above 12.4 V Go to next step.
		Below 12.4 V Replace battery.
3	Apply test load (see test load chart) to battery using a battery load tester and record battery voltage after 15 seconds. Is voltage more than specification?	Yes Battery is okay.
		No Replace battery.

CHARGING SYSTEM

Test load chart

Battery	Load (A)
34B19R	110
55D23R	180
75D26L	195
75D26R	195
80D26R	195
95D31R	250

Battery positive voltage with load

Approximate battery temp.	Minimum voltage(V)
21 °C {70 °F}	9.6
15 °C {60 °F}	9.5
10 °C {50 °F}	9.4
4 °C {40 °F}	9.3
– 1 °C {30 °F}	9.1
– 7 °C {20 °F}	8.9
–12 °C {10 °F}	8.7
–18 °C { 0 °F}	8.5

Back-up Current

1. Verify that the ignition switch (engine switch) is at the OFF position and that the key has been removed.
2. Disconnect the negative battery cable.

Caution

- Operating electrical loads while measuring the back-up current can damage the circuit tester.

3. Measure the back-up current between the negative battery terminal and the negative battery cable.

Back-up current 20 mA max.

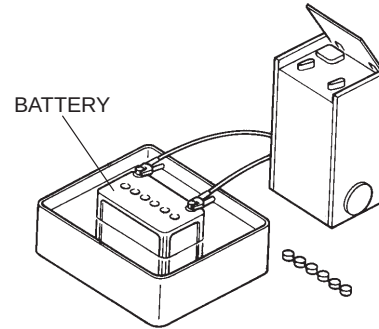
4. If the current exceeds the maximum, remove the fuse in the main fuse block and the fuse block one by one while measuring the back-up current.
5. Inspect and repair harnesses and connectors of the fuse at which the current reduces.

BATTERY RECHARGING

Caution

- When disconnecting the battery, remove the negative cable first and install it last to prevent damage to electrical components or the battery.
- To avoid deformation or damage to the battery, remove the battery plugs while charging the battery.
- Do not quick charge for over 30 minutes. It will damage the battery.

1. Place a battery in a pan of water to prevent it from overheating. The water level should come up about halfway on the battery. Keep water off the top of the battery.



2. Connect a battery charger to the battery.
3. Adjust the charging current as follows.

Battery type (5-hour rate)	Slow charge (A)	Quick charge (A)/(30 min.)
34B19R (27)	3.0—4.0	20
55D23R (48)	4.5—5.5	30
75D26L (52)	5.5—6.5	35
75D26R (52)	5.5—6.5	35
80D26R (55)	5.5—6.5	35
95D31R (64)	6.5—8.0	40

4. After the battery has been recharged, measure the battery positive voltage and verify that the battery keeps specified voltage for more than 1 hour.

Specification

Above 12.4 V

5. If not as specified, replace the battery.

GENERATOR REMOVAL/INSTALLATION

Warning

- When the battery cables are connected, touching the vehicle body with generator terminal B will generate sparks. This can cause personal injury, fire, and damage to the electrical components. Always disconnect the battery before performing the following operation.

1. Disconnect the negative battery cable.
2. Remove the fresh-air duct, air intake pipe and air hose. (WL, WL Turbo)
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.
5. Inspect the drive belt deflection/tension. (Refer to Section B1—B3, DRIVE BELT, DRIVE BELT INSPECTION.)